

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-----------------|------------------|---------|------------------|
| L1    | 3    | ((BERTRAND) near2 (MAQUIN)).INV.   | US-PGPUB; USPAT | OR               | ON      | 2009/12/19 23:29 |
| L2    | 5    | ((LUCIEN) near2 (FOSSE)).INV.  | US-PGPUB; USPAT | OR               | ON      | 2009/12/19 23:29 |
| L3    | 1183 | 501/70.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2009/12/19 23:29 |
| L4    | 143  | 501/70.ccls. and ((SIO2 or "SiO. sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (Na2O or "Na. sub.2 O" or "Na. sub.2O" or Na20 or "Na.sub.2 0" or "Na. sub.20" or sodo or soda or sodium) and (CaO or Ca0 or calcium or calico or calcia or lime) and (MnO2 or "MnO. sub.2" or Mn02 or "Mn0.sub.2" or MnO or Mn0 or manganese) and (V2O5 or "V.sub.2 O.sub.5" or "V. sub.2O.sub.5" or V205 or "V.sub.2 0. sub.5" or "V.sub.20. sub.5" or vanadium)) | US-PGPUB; USPAT | OR               | ON      | 2009/12/19 23:29 |

|    |     |  |                    |    |    |                     |
|----|-----|--|--------------------|----|----|---------------------|
| L5 | 138 | 501/70.ccls. and ((SiO2 or "SiO.<br>sub.2" or Si02 or<br>"Si0.sub.2" or silica<br>or silicon or quartz)<br>and (Na2O or "Na.<br>sub.2 O" or "Na.<br>sub.2O" or Na20 or<br>"Na.sub.2 0" or "Na.<br>sub.20" or sodo or<br>soda or sodium)<br>and (CaO or Ca0 or<br>calcium or calico or<br>calcia or lime) and<br>(Fe2O3 or "Fe.<br>sub.2 O.sub.3" or<br>"Fe.sub.2O.sub.3"<br>or Fe203 or "Fe.<br>sub.2 0.sub.3" or<br>"Fe.sub.20.sub.3"<br>or iron or ferrous)<br>and (MnO2 or<br>"MnO.sub.2" or<br>Mn02 or "Mn0.<br>sub.2" or MnO or<br>Mn0 or<br>manganese) and<br>(V2O5 or "V.sub.2<br>O.sub.5" or "V.<br>sub.2O.sub.5" or<br>V205 or "V.sub.2 0.<br>sub.5" or "V.sub.20.<br>sub.5" or<br>vanadium)) | US-PGPUB;<br>USPAT | OR | ON | 2009/12/19<br>23:29 |
| L6 | 290 | 501/70.ccls. and (hollowware or<br>bottle or tube or<br>container)   | US-PGPUB;<br>USPAT | OR | ON | 2009/12/19<br>23:30 |
| L7 | 22  | 501/70.ccls. and ((SiO2 or "SiO.<br>sub.2" or Si02 or<br>"Si0.sub.2" or silica<br>or silicon or quartz)<br>and (Na2O or "Na.<br>sub.2 O" or "Na.<br>sub.2O" or Na20 or<br>"Na.sub.2 0" or "Na.<br>sub.20" or sodo or<br>soda or sodium)<br>and (CaO or Ca0 or<br>calcium or calico or<br>calcia or lime) and   | US-PGPUB;<br>USPAT | OR | ON | 2009/12/19<br>23:30 |

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|----|----|--|--------------------|----|----|---------------------|
|    |    | (MnO2 or "MnO.<br>sub.2" or Mn02 or<br>"Mn0.sub.2" or<br>MnO or Mn0 or<br>manganese) and<br>(V2O5 or "V.sub.2<br>O.sub.5" or "V.<br>sub.2O.sub.5" or<br>V205 or "V.sub.2 0.<br>sub.5" or "V.sub.20.<br>sub.5" or<br>vanadium)) and<br>(hollowware or<br>bottle or tube or<br>container)  |                    |    |    |                     |
| L8 | 22 | 501/70.ccls. and<br>((SiO2 or "SiO.<br>sub.2" or Si02 or<br>"Si0.sub.2" or silica<br>or silicon or quartz)<br>and (Na2O or "Na.<br>sub.2 O" or "Na.<br>sub.2O" or Na20 or<br>"Na.sub.2 0" or "Na.<br>sub.20" or sodo or<br>soda or sodium)<br>and (CaO or Ca0 or<br>calcium or calico or<br>calcia or lime) and<br>(Fe2O3 or "Fe.<br>sub.2 O.sub.3" or<br>"Fe.sub.2O.sub.3"<br>or Fe203 or "Fe.<br>sub.2 0.sub.3" or<br>"Fe.sub.20.sub.3"<br>or iron or ferrous)<br>and (MnO2 or<br>"MnO.sub.2" or<br>Mn02 or "Mn0.<br>sub.2" or MnO or<br>Mn0 or<br>manganese) and<br>(V2O5 or "V.sub.2<br>O.sub.5" or "V.<br>sub.2O.sub.5" or<br>V205 or "V.sub.2 0.<br>sub.5" or "V.sub.20.<br>sub.5" or<br>vanadium)) and<br>(hollowware or<br>bottle or tube or<br>container) | US-PGPUB;<br>USPAT | OR | ON | 2009/12/19<br>23:30 |

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| L9  | 604 | ((SiO2 or "SiO.<br>sub.2" or Si02 or<br>"Si0.sub.2" or silica<br>or silicon or quartz)<br>and (Na2O or "Na.<br>sub.2 O" or "Na.<br>sub.2O" or Na20 or<br>"Na.sub.2 0" or "Na.<br>sub.20" or sodo or<br>soda or sodium)<br>and (CaO or Ca0 or<br>calcium or calico or<br>calcia or lime) and<br>(MnO2 or "MnO.<br>sub.2" or Mn02 or<br>"Mn0.sub.2" or<br>MnO or Mn0 or<br>manganese) and<br>(V2O5 or "V.sub.2<br>O.sub.5" or "V.<br>sub.2O.sub.5" or<br>V205 or "V.sub.2 0.<br>sub.5" or "V.sub.20.<br>sub.5" or<br>vanadium)) and<br>(glass near<br>(hollowware or<br>bottle or tube or<br>container)) | US-PGPUB;<br>USPAT   | OR | ON | 2009/12/19<br>23:30 |
| L10 | 6   | ((SiO2 or "SiO.<br>sub.2" or Si02 or<br>"Si0.sub.2" or silica<br>or silicon or quartz)<br>and (Na2O or "Na.<br>sub.2 O" or "Na.<br>sub.2O" or Na20 or<br>"Na.sub.2 0" or "Na.<br>sub.20" or sodo or<br>soda or sodium)<br>and (CaO or Ca0 or<br>calcium or calico or<br>calcia or lime) and<br>(MnO2 or "MnO.<br>sub.2" or Mn02 or<br>"Mn0.sub.2" or<br>MnO or Mn0 or<br>manganese) and<br>(V2O5 or "V.sub.2<br>O.sub.5" or "V.<br>sub.2O.sub.5" or<br>V205 or "V.sub.2 0.<br>sub.5" or "V.sub.20.<br>sub.5" or<br>vanadium))  | EPO; JPO;<br>DERWENT | OR | ON | 2009/12/19<br>23:30 |

|     |     |   |                   |    |    |                  |
|-----|-----|---|-------------------|----|----|------------------|
|     |     | sub.5" or vanadium)) and (glass near (hollowware or bottle or tube or container))   |                   |    |    |                  |
| L11 | 2   | EP-653385-\$.did.   | EPO; JPO; DERWENT | OR | ON | 2009/12/19 23:31 |
| L12 | 1   | EP-619274-\$.did.   | EPO; JPO; DERWENT | OR | ON | 2009/12/19 23:31 |
| L13 | 2   | JP-52047812-\$.did.   | EPO; JPO; DERWENT | OR | ON | 2009/12/19 23:31 |
| L14 | 2   | JP-52047811-\$.did.   | EPO; JPO; DERWENT | OR | ON | 2009/12/19 23:31 |
| L15 | 7   | L11 L12 L13 L14   | EPO; JPO; DERWENT | OR | ON | 2009/12/19 23:31 |
| L16 | 2   | ("5656560" "5247811").pn.   | US-PGPUB; USPAT   | OR | ON | 2009/12/19 23:32 |
| L19 | 1   | wo-02066388-\$.did.   | EPO; JPO; DERWENT | OR | ON | 2009/12/19 23:34 |
| L21 | 134 | 501/71.ccls. and ((SiO2 or "SiO. sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (Na2O or "Na. sub.2 O" or "Na. sub.2O" or Na20 or "Na.sub.2 0" or "Na. sub.20" or sodo or soda or sodium) and (CaO or Ca0 or calcium or calico or calcia or lime) and (Fe2O3 or "Fe. sub.2 O.sub.3" or "Fe.sub.2O.sub.3" or Fe203 or "Fe. sub.2 0.sub.3" or "Fe.sub.20.sub.3" or iron or ferrous) and (MnO2 or "MnO.sub.2" or Mn02 or "Mn0. sub.2" or MnO or Mn0 or manganese) and (V2O5 or "V.sub.2 O.sub.5" or "V. | US-PGPUB; USPAT   | OR | ON | 2009/12/19 23:41 |

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|     |    | sub.2O.sub.5" or<br>V205 or "V.sub.2 O.<br>sub.5" or "V.sub.20.<br>sub.5" or<br>vanadium)) |                    |    |    |                     |
| L22 | 53 | I21 not I5   | US-PGPUB;<br>USPAT | OR | ON | 2009/12/19<br>23:41 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|------|------------------|---------|------------------|
| L20   | 1    | 501/70.ccls. and ((SiO2<br>or "SiO.sub.2" or Si02<br>or "Si0.sub.2" or silica<br>or silicon or quartz)<br>and (Na2O or "Na.<br>sub.2 O" or "Na.<br>sub.2O" or Na20 or "Na.<br>sub.2 0" or "Na.sub.20"<br>or soda or soda or<br>sodium) and (CaO or<br>Ca0 or calcium or calico<br>or calcia or lime) and<br>(Fe2O3 or "Fe.sub.2 O.<br>sub.3" or "Fe.sub.2O.<br>sub.3" or Fe203 or "Fe.<br>sub.2 0.sub.3" or "Fe.<br>sub.20.sub.3" or iron or<br>ferrous) and (MnO2 or<br>"MnO.sub.2" or Mn02<br>or "Mn0.sub.2" or MnO<br>or Mn0 or manganese)<br>and (V2O5 or "V.sub.2<br>O.sub.5" or "V.sub.2O.<br>sub.5" or V205 or "V.<br>sub.2 0.sub.5" or "V.<br>sub.20.sub.5" or<br>vanadium)) | UPAD | OR               | ON      | 2009/12/19 23:40 |

|     |   |  |      |    |    |                  |
|-----|---|--|------|----|----|------------------|
| L23 | 0 | 501/71.ccls. and ((SiO2 or "SiO.sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na20 or "Na.sub.2 0" or "Na.sub.20" or soda or soda or sodium) and (CaO or Ca0 or calcium or calico or calcia or lime) and (Fe2O3 or "Fe.sub.2 O.sub.3" or "Fe.sub.2O.sub.3" or Fe203 or "Fe.sub.2 0.sub.3" or "Fe.sub.20.sub.3" or iron or ferrous) and (MnO2 or "MnO.sub.2" or Mn02 or "Mn0.sub.2" or MnO or Mn0 or manganese) and (V2O5 or "V.sub.2 O.sub.5" or "V.sub.2O.sub.5" or V205 or "V.sub.2 0.sub.5" or "V.sub.20.sub.5" or vanadium)) and (hollowware or bottle or tube or container) | UPAD | OR | ON | 2009/12/19 23:42 |
| L24 | 1 | 501/70,71.ccls. and ((SiO2 or "SiO.sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na20 or "Na.sub.2 0" or "Na.sub.20" or soda or soda or sodium) and (CaO or Ca0 or calcium or calico or calcia or lime) and (Fe2O3 or "Fe.sub.2 O.sub.3" or "Fe.sub.2O.sub.3" or Fe203 or "Fe.sub.2 0.sub.3" or "Fe.sub.20.sub.3" or iron or ferrous) and (MnO2 or "MnO.sub.2" or Mn02 or "Mn0.sub.2" or MnO or Mn0 or manganese) and (V2O5 or "V.sub.2 O.sub.5" or "V.sub.2O.sub.5" or V205 or "V.sub.2 0.sub.5" or "V.sub.20.sub.5" or vanadium))  | UPAD | OR | ON | 2009/12/19 23:42 |

sub.5" or V205 or "V.  
sub.2 0.sub.5" or "V.  
sub.20.sub.5" or  
vanadium))

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